(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau





(43) International Publication Date 25 November 2004 (25.11.2004)

PCT

(10) International Publication Number WO 2004/102189 A1

(51) International Patent Classification⁷: 33/50

G01N 33/48,

(21) International Application Number:

PCT/EP2004/005293

(22) International Filing Date: 17 May 2

17 May 2004 (17.05.2004)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

03090141.7	15 May 2003 (15.05.2003)	EP
60/472,772	23 May 2003 (23.05.2003)	US
03090153.2	23 May 2003 (23.05.2003)	EP
60/525,583	24 November 2003 (24.11.2003)	US
03090401.5	24 November 2003 (24.11.2003)	EP
03090460.1	30 December 2003 (30.12.2003)	EP
60/534,197	2 January 2004 (02.01.2004)	US

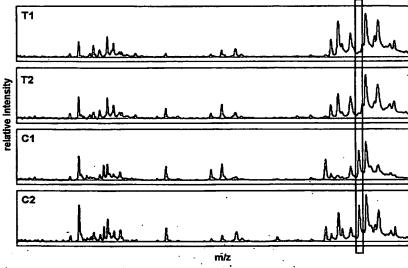
(71) Applicant (for all designated States except US): EURO-PROTEOME AG [DE/DE]; Neuendorfstr. 24b, 16761 Hennigsdorf (DE).

(72) Inventors; and

- (75) Inventors/Applicants (for US only): WIEMER, Jan [DE/DE]; Keilerstrasse 17, 13503 Berlin (DE). SEIBERT, Volker [DE/DE]; Pradelstrasse 9, 13187 Berlin (DE). MEUER, Jörn [DE/DE]; Hallandstrasse 12, 13189 Berlin (DE).
- (74) Agents: GULDE, Klaus W. et al.; Anwaltskanzlei, Gulde Hengelhaupt Ziebig & Schneider, Schützenstrasse 15-17, 10117 Berlin (DE).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,

[Continued on next page]

(54) Title: BIOMARKERS FOR THE DIFFERENTIAL DIAGNOSIS OF PANCREATITIS AND PANCREATIC CANCER



(57) Abstract: The present invention provides biomolecules and the use of these biomolecules for the differential diagnosis of pancreatitis and/or pancreatic cancer. In particular the present invention provides methods for detecting biomolecules within a test sample as well as a database comprising of mass profiles of biomolecules specific for healthy subjects, subjects having a precancerous lesion of the pancreas, subjects having a pancreatic cancer or a metastasised pancreatic cancer or subjects having pancreatitis. Furthermore, the present invention provides methods for the characterization of said biomolecules using gas phase ion spectrometry. In addition, the present invention provides methods for the identification of said biomolecules provided that they are proteins or polypeptides. The invention further provides kits for the differential diagnosis of pancreatitis or pancreatic cancer.



WO 2004/102189 A1



ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

Published:

with international search report